

Attachment
"A"

SEQUENCE LISTING

<110> McIninch, James

<120> COMPUTATIONAL NUCLEIC ACID CODING AND FEATURE ANALYSIS

<130> 04983.0220.00US00

<140> 09/698,213

<141> 2000-10-30

<160> 13

<170> PatentIn version



<210> 1

<211> 2165

<212> DNA

<213> Arabidopsis thaliana

<220>

<221> unsure

<222> (1)...(2165)

<223> Unsure at all n locations

<220>

<223> Ecotype Landsberg, genomic DNA

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<210> 2
 <211> 6
 <212> PRT
 <213> Unknown

<220>
 <223> Describes a predicted protein sequence

<400> 2
 Arg Phe Phe Arg Ala Leu

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<210> 3
<211> 7
<212> PRT
<213> Unknown

<220>
<223> Describes a predicted protein sequence

<400> 3
Ala Val Leu Ala Thr Pro Val
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<210> 4
<211> 21
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<220>
<223> Describes a predicted protein sequence

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Gln Asn Val Val Ser
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<210> 5
<211> 35
<212> PRT
<213> Unknown

<220>
<223> Describes a predicted protein sequence

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Ser Thr Gln Leu Ser Met Glu Leu Leu Ile Ile Gly Met Thr Trp Arg
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Arg Phe Gly Ile Thr Leu Ser Thr Met Ser Phe Val Leu Pro Leu Lys
20 25 30

Asn Ile Arg
35

<210> 6
<211> 56
<212> PRT
<213> Unknown

<220>

<223> Describes a predicted protein sequence

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Leu Thr Glu Ala Pro Leu Asn Pro Lys Ala Asn Arg Glu Lys Met Thr
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Gln Ile Met Phe Glu Thr Phe Asn Thr Pro Ala Met Tyr Val Ala Ile
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Gln Ala Val Leu Ser Leu Tyr Ala Ser Gly Arg Thr Thr Gly Gln Tyr
35 40 45
Ile Thr Thr Phe Phe Leu Tyr Arg
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<210> 7

<211> 191

<212> PRT

<213> Unknown

<220>

<223> Describes a predicted protein sequence

<400> 7

Ser Gly Asp Gly Val Ser His Thr Val Pro Ile Tyr Glu Gly Tyr Ala
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Asp His Leu Met Lys Ile Leu Thr Glu Arg Gly Tyr Ser Phe Thr Thr
35 40 45
Thr Ala Glu Arg Glu Ile Val Arg Asp Met Lys Glu Lys Leu Ser Tyr
50 55 60
Ile Ala Leu Asp Phe Glu Gln Glu Leu Glu Thr Ser Lys Thr Ser Ser
65 70 75 80
Ser Val Glu Lys Ser Phe Glu Leu Pro Asp Gly Gln Val Ile Thr Ile
85 90 95
Gly Ala Glu Arg Phe Arg Cys Pro Glu Val Leu Phe Gln Pro Ser Met
100 105 110
Ile Gly Met Glu Asn Pro Gly Ile His Glu Thr Thr Tyr Asn Ser Ile
115 120 125
Met Lys Cys Asp Val Asp Ile Arg Lys Asp Leu Tyr Gly Asn Ile Val
130 135 140
Leu Ser Gly Gly Thr Thr Met Phe Asp Gly Ile Gly Asp Arg Met Ser
145 150 155 160
Lys Glu Ile Thr Ala Leu Ala Pro Ser Ser Met Lys Ile Lys Val Val
165 170 175

Ala Pro Pro Glu Arg Lys Tyr Ser Val Trp Ile Gly Gly Ser Ile
180 185 190

<210> 8
<211> 13
<212> PRT
<213> Unknown

<220>
<223> Describes a predicted protein sequence

<400> 8
Val Pro Asn Leu Gln Met Trp Ile Ala Lys Ala Glu Tyr
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<210> 9
<211> 26
<212> PRT
<213> Unknown

<220>
<223> Describes a predicted protein sequence

<400> 9
Asn Leu Asp Arg Gln Ser Ser Thr Gly Ser Ala Ser Asp Gln Lys Ser
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Pro Ser Lys Thr Arg Ala Val Lys Ile Leu
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<210> 10
<211> 56
<212> PRT
<213> Unknown

<220>
<223> Describes a predicted protein sequence

<400> 10

Asn Ser Ser Ala Val Asn Phe Ser Thr Ser Tyr Thr Leu Ala Ile Arg
1 5 10 15

Leu Glu Leu Ser Ala Leu Ile Phe Leu Ile Ser Leu Glu Ile Ile Ser
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Ser Ser Ile Lys Trp Gly Met Ala Ser Ser Ser Ile Cys Asn Ser Ser
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Lys Leu Ser Met Lys Lys Gln Ser
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<210> 11
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<212> PRT
<213> Unknown

<220>

<223> Describes a predicted protein sequence

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Ser Gly Asp Gly Val Ser His Thr Val Pro Ile Tyr Glu Gly Tyr Ala
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Leu Pro His Ala Ile Leu Arg Leu Asp Leu Ala Gly Arg Asp Leu Thr
20 25 30

Asp His Leu Met Lys Ile Leu Thr Glu Arg Gly Tyr Ser Phe Thr Thr
35 40 45

Thr Ala Glu Arg Glu Ile Val Arg Asp Met Lys Glu Lys Leu Ser Tyr
50 55 60

Ile Ala Leu Asp Phe Glu Gln Glu Leu Glu Thr Ser Lys Thr Ser Ser
65 70 75 80

Ser Val Glu Lys Ser Phe Glu Leu Pro Asp Gly Gln Val Ile Thr Ile
85 90 95

Gly Ala Glu Arg Phe Arg Cys Pro Glu Val Leu Phe Gln Pro Ser Met
100 105 110

Ile Gly Met Glu Asn Pro Gly Ile His Glu Thr Thr Tyr Asn Ser Ile
115 120 125

Met Lys Cys Asp Val Asp Ile Arg Lys Asp Leu Tyr Gly Asn Ile Val
130 135 140

Leu Ser Gly Gly Thr Thr Met Phe Asp Gly Ile Gly Asp Arg Met Ser
145 150 155 160

Lys Glu Ile Thr Ala Leu Ala Pro Ser Ser Met Lys Ile Lys Val Val
165 170 175

Ala Pro Pro Glu Arg Lys Tyr Ser Val Trp Ile Gly Gly Ser Ile Leu
180 185 190

Ala Ser

<210> 12
<211> 9
<212> PRT
<213> Unknown

<220>

<223> Describes a predicted protein sequence

<400> 12

Gln Met Trp Ile Ala Lys Ala Glu Tyr
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<210> 13
<211> 296
<212> PRT
<213> Arabidopsis thaliana

<220>
<223> Ecotype columbia, describes actin

<400> 13

Met Glu Lys Ile Trp His His Thr Phe Tyr Asn Glu Leu Arg Val Ala
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Pro Glu Glu His Pro Val Leu Leu Thr Glu Ala Pro Leu Asn Pro Lys
20 25 30

Ala Asn Arg Glu Lys Met Thr Gln Ile Met Phe Glu Thr Phe Asn Thr
35 40 45

Pro Ala Met Tyr Val Ala Ile Gln Ala Val Leu Ser Leu Ala Ser Gly
50 55 60

Arg Thr Thr Gly Gly Ile Val Leu Asp Ser Gly Asp Gly Val Ser His
65 70 75 80

Thr Val Pro Ile Tyr Glu Gly Tyr Ala Leu Pro His Ala Ile Leu Arg
85 90 95

Leu Asp Leu Ala Gly Arg Asp Leu Thr Asp His Leu Met Lys Ile Leu
100 105 110

Thr Glu Arg Gly Tyr Ser Phe Thr Thr Thr Ala Glu Arg Glu Ile Val
115 120 125

Arg Asp Met Lys Glu Lys Leu Ser Tyr Ile Ala Leu Asp Phe Glu Gln
130 135 140

Glu Leu Glu Thr Ser Lys Thr Ser Ser Ser Val Glu Lys Ser Phe Glu
145 150 155 160

Leu Pro Asp Gly Gln Val Ile Thr Ile Gly Ala Glu Arg Phe Arg Cys
165 170 175

Pro Glu Val Leu Phe Gln Pro Ser Met Ile Gly Met Glu Asn Pro Gly
180 185 190

Ile His Glu Thr Thr Tyr Asn Ser Ile Met Lys Cys Asp Val Asp Ile
195 200 205

Arg Lys Asp Leu Tyr Gly Asn Ile Val Leu Ser Gly Gly Thr Thr Met
210 215 220

Phe Gly Gly Ile Gly Asp Arg Met Ser Lys Glu Ile Thr Ala Leu Ala

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Gln Met Gln Met Trp Ile Ala Lys Ala Glu Tyr Asp Glu Ser Gly Pro						
	275		280		285	
Ser Ile Val His Arg Lys Cys Phe						
	290		295			